

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Previously Presented) An arrangement for carrying out a method for controlling a multi-phased and reversible rotating electrical machine, associated with a heat engine of a vehicle, including a network for supplying electrical energy and a battery serving as a source of electrical energy connected to this network, as well as a command and control unit for the said electrical machine, in which overexcitation of the machine for a predetermined period of time causes the production of energy, and makes this energy available for the execution of certain functions associated with the vehicle, comprising:
 - a device for supplying the energy produced during the predetermined period of time of overexcitation of the machine; wherein the device for supplying the energy is an energy storage device that can be connected to the rotating electrical machine by means of a switching device during the predetermined period of time of overexcitation of the machine,
 - a DC to DC device mounted between the energy supply battery and the energy storage device, and,
 - a circuit that can directly connect the rotating electrical machine to the battery, wherein a switch is provided in the above-mentioned circuit.
2. (Currently Amended) The arrangement according to claim 1, wherein the switch comprises a MOSFET ~~transistor~~.
3. (Previously Presented) The arrangement according to claim 2, wherein the switching device is a static switch device.
4. (Previously Presented) The arrangement according to claim 3, wherein the energy storage device is a capacitor device.

5. (Previously Presented) The arrangement according to claim 4, wherein the switching device includes two transistors, which are mounted head-to-tail in the output circuit of the rotating electrical machine.
6. (Previously Presented) The arrangement according to claim 1, wherein the switching device comprises a diode, with a switch mounted in series with the diode.
7. (Previously Presented) The arrangement according to claim 6, wherein the switch comprises an electromagnetic relay.
8. (Previously Presented) The arrangement according to claim 1, wherein the switching device is mounted between the rotating electrical machine and the energy storage device.
9. (Previously Presented) The arrangement according to claim 4, wherein the energy storage device is a supercapacitor with low internal resistance.
10. (Previously Presented) The arrangement according to claim 5, wherein at least one of the transistors is of the metal-oxide-semiconductor field-effect transistor (MOSFET) type.